

**Section 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Material Name**

Barrithane VP

**Synonyms**

Silane Terminated Polyether

**Product Use**

AVB coating

**Restrictions on Use**

None known

**Details of the supplier of the safety data sheet**

Carlisle Coatings and Waterproofing Incorporated

900 Hensley Lane

Wylie, TX 75098

www.carlisle-ccw.com

MSDS Assistance - 972.442.6545

Technical Assistance - 888.229.2199

Customer Service - 888.229.0199

**Section 2 - HAZARDS IDENTIFICATION**

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Carcinogenicity - Category 1A

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (kidneys, respiratory system, immune system, lungs)

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

May ignite if exposed to high temperatures or direct flame.

**Precautionary Statement(s)**

**Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

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Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.

**Response**

IF exposed or concerned: Get medical advice/attention.

**Storage**

Store locked up.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

CAS	Component Name	Percent
13674-84-5	Phosphate plasticizer	25-35
1317-65-3	Limestone	25-35
NA	Other components or impurities which are not considered hazardous and/or are not associated with an OEL and will not influence the classification of the product	25-35
471-34-1	Carbonic acid, calcium salt (1:1)	7-8
19186-97-1	Bromoneopental phosphate	1-5
64741-65-7	Odorless Mineral Spirits	3-7
14808-60-7	Quartz	0.5-1.75
2768-02-7	Silane, ethenyltrimethoxy-	1-2
57-11-4	Stearic acid	1-2
13463-67-7	Titanium dioxide	0.5-2.0
22673-19-4	Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-	0.1-0.3
1333-86-4	Carbon black	0.05-0.15
1305-78-8	Calcium oxide	0.0745

**Section 4 - FIRST AID MEASURES**

**Description of Necessary Measures**

IF exposed or concerned: Get medical advice/attention.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. Get medical attention, if need.

**Skin**

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Wash exposed skin with soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

### **Eyes**

Flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

### **Ingestion**

Do NOT induce vomiting. If swallowed, get medical attention.

### **Most Important Symptoms/Effects**

#### **Acute**

No information on significant adverse effects.

#### **Delayed**

May cause cancer. Causes damage to organs through prolonged or repeated exposure: kidneys, respiratory system, immune system, lungs.

### **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

## **Section 5 - FIRE FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

#### **Unsuitable Extinguishing Media**

None reported.

### **Special Hazards Arising from the Chemical**

Slight fire hazard. This product is combustible and can be ignited when exposed to its flashpoint. Closed containers may develop pressure and rupture in event of fire.

### **Hazardous Combustion Products**

Carbon dioxide, carbon monoxide, hydrochloric acid

### **Fire Fighting Measures**

Remove product from area of fire. Stay upwind and keep out of low areas.

### **Special Protective Equipment and Precautions for Firefighters**

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

### **Methods and Materials for Containment and Cleaning Up**

Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

### **Environmental Precautions**

Avoid release to the environment.

## **Section 7 - HANDLING AND STORAGE**

### **Precautions for Safe Handling**

This product contains crystalline silica, which is a known carcinogen: Do not grind or sand. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective

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gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. **KEEP OUT OF REACH OF CHILDREN.**

**Conditions for Safe Storage, Including any Incompatibilities**

Store locked up.

Store in a well-ventilated place. When not in use, keep containers tightly closed. Do not cut, puncture, or weld on or near this container. Keep away from incompatible materials.

Store in a cool, dry locations, away from sunlight, sources of intense heat, or where freezing is possible.

**Incompatible Materials**

strong acids, strong oxidizing agents

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

<b>Limestone</b>	<b>1317-65-3</b>
NIOSH:	10 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable dust
OSHA (US):	15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction
Mexico:	10 mg/m3 TWA VLE-PPT
	20 mg/m3 STEL [PPT-CT ]
<b>Carbonic acid, calcium salt (1:1)</b>	<b>471-34-1</b>
NIOSH:	10 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable dust
OSHA (US):	15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction (related to Limestone)
Mexico:	10 mg/m3 TWA VLE-PPT (related to Limestone)
	20 mg/m3 STEL [PPT-CT ] (related to Limestone)
<b>Quartz</b>	<b>14808-60-7</b>
ACGIH:	0.025 mg/m3 TWA respirable particulate matter
NIOSH:	0.05 mg/m3 TWA respirable dust
	50 mg/m3 IDLH respirable dust
OSHA (US):	50 µg/m3 TWA
	((250)/(%SiO <sub>2</sub> + 5) mppcf TWA ) respirable fraction ; ((10)/(%SiO <sub>2</sub> + 2) mg/m3 TWA ) respirable fraction
Mexico:	0.1 mg/m3 TWA VLE-PPT respirable fraction
<b>Stearic acid</b>	<b>57-11-4</b>

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ACGIH:	10 mg/m3 TWA inhalable particulate matter ; 3 mg/m3 TWA respirable particulate matter
<b>Titanium dioxide</b>	<b>13463-67-7</b>
ACGIH:	10 mg/m3 TWA
NIOSH:	5000 mg/m3 IDLH
OSHA (US):	15 mg/m3 TWA total dust
Mexico:	10 mg/m3 TWA VLE-PPT as Ti
	20 mg/m3 STEL [PPT-CT ] as Ti
<b>Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-</b>	<b>22673-19-4</b>
ACGIH:	0.1 mg/m3 TWA as Sn (related to Tin organic compounds)
	0.2 mg/m3 STEL as Sn (related to Tin organic compounds)
	Skin - potential significant contribution to overall exposure by the cutaneous route (related to Tin organic compounds)
NIOSH:	0.1 mg/m3 TWA (except Cyhexatin ) as Sn (related to Tin organic compounds)
	Potential for dermal absorption (related to Tin organic compounds)
	25 mg/m3 IDLH (except Cyhexatin ) as Sn (related to Tin organic compounds)
OSHA (US):	0.1 mg/m3 TWA as Sn (related to Tin organic compounds)
Mexico:	0.1 mg/m3 TWA VLE-PPT as Sn (related to Tin organic compounds)
	0.2 mg/m3 STEL [PPT-CT ] as Sn (related to Tin organic compounds)
	Skin - potential for cutaneous absorption (related to Tin organic compounds)
<b>Carbon black</b>	<b>1333-86-4</b>
ACGIH:	3 mg/m3 TWA inhalable particulate matter
NIOSH:	3.5 mg/m3 TWA ; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons ) as PAH
	1750 mg/m3 IDLH

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OSHA (US):	3.5 mg/m3 TWA
Mexico:	3.5 mg/m3 TWA VLE-PPT
	7 mg/m3 STEL [PPT-CT ]
<b>Calcium oxide</b>	<b>1305-78-8</b>
ACGIH:	2 mg/m3 TWA
NIOSH:	2 mg/m3 TWA
	25 mg/m3 IDLH
OSHA (US):	5 mg/m3 TWA
Mexico:	2 mg/m3 TWA VLE-PPT
<b>Odorless Mineral Spirits</b>	<b>64741-65-7</b>
ACGIH:	No data
NIOSH:	No data
OSHA (US):	2000 mg/m3 TWA
Mexico:	No data

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Provide adequate ventilation. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

Wear appropriate work clothing.

**Respiratory Protection**

Respirators depend on exposure level. SCBA with full face piece recommended during change outs and available in case of emergency.

**Glove Recommendations**

Wear protective gloves.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Dark Grey paste	<b>Physical State</b>	liquid
<b>Odor</b>	characteristic	<b>Color</b>	Dark grey

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Odor Threshold	Not available	pH	Not available
Melting Point	Not available	Boiling Poin	Not available
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	110°F
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available
Water Solubility	Not available	Partition coefficient: n-octanol/water	Not available
Viscosity	Slightly thick liquid	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	1.35 - 1.45
VOC	166 g/L	Molecular Weight	Not available

**Other Information**

No additional information available.

**Section 10 - STABILITY AND REACTIVITY**

**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable under normal conditions of use.

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**

Strong acids, strong oxidizing agents

**Hazardous decomposition products**

Carbon dioxide, Carbon monoxide, hydrochloric acid

**Section 11 - TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

**Inhalation**

No information on significant adverse effects.

**Skin Contact**

No information on significant adverse effects.

**Eye Contact**

No information on significant adverse effects.

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**Ingestion**

No information on significant adverse effects.

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**Phosphate Plasticizer (13674-84-5)**

Oral LD50 Rat 630-2000 mg/kg

Dermal LD50 Rat >5000 mg/kg

Inhalation Rat >7 mg

**Carbonic acid, calcium salt (1:1) (471-34-1)**

Oral LD50 Rat 6450 mg/kg

**Silane, ethenyltrimethoxy- (2768-02-7)**

Oral LD50 Rat 7340 µL/kg

**Stearic acid (57-11-4)**

Oral LD50 Rat 4600 mg/kg

**Titanium dioxide (13463-67-7)**

Oral LD50 Rat >10000 mg/kg

**Carbon black (1333-86-4)**

Oral LD50 Rat >15400 mg/kg

**Calcium oxide (1305-78-8)**

Oral LD50 Rat 500 mg/kg

**Odorless mineral spirits (64741-65-7)**

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >5000 mg/kg

**Product Toxicity Data**

**Acute Toxicity Estimate**

Oral	> 2000 mg/kg
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**Immediate Effects**

No information on significant adverse effects.

**Delayed Effects**

May cause cancer. Causes damage to organs through prolonged or repeated exposure: kidneys, respiratory system, immune system, lungs.

**Irritation/Corrosivity Data**

No information available for the product.

**Respiratory Sensitization**

No information available for the product.

**Dermal Sensitization**

No information available for the product.

**Component Carcinogenicity**

<b>Quartz</b>	<b>14808-60-7</b>
ACGIH:	A2 - Suspected Human Carcinogen
IARC:	Monograph 100C [2012] ; Monograph 68 [1997] (Group 1 (carcinogenic to humans))



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NTP:	Known Human Carcinogen
DFG:	Category 1 (causes cancer in man ;alveola fraction )
OSHA:	Present (respirable size )
NIOSH:	potential occupational carcinogen
<b>Titanium dioxide</b>	<b>13463-67-7</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 93 [2010] ; Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3A (could be carcinogenic for man ;inhalable fraction with the exception of ultra-small particles )
OSHA:	Present
NIOSH:	potential occupational carcinogen
<b>Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-</b>	<b>22673-19-4</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen (related to Tin organic compounds)
DFG:	Category 4 (no significant contribution to human cancer )
<b>Carbon black</b>	<b>1333-86-4</b>
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 93 [2010] ; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3B (could be carcinogenic for man ;inhalable fraction )
OSHA:	Present
NIOSH:	potential occupational carcinogen

**Germ Cell Mutagenicity**

No information available for the product.

**Tumorigenic Data**

No data available

**Reproductive Toxicity**

No information available for the product.

**Specific Target Organ Toxicity - Single Exposure**

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No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

Kidneys, respiratory system, immune system, lungs

**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

No data available.

**Additional Data**

No additional information available.

**Section 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity**

Avoid release to the environment. Harmful to aquatic life with long lasting effects.

**Component Analysis - Aquatic Toxicity**

<b>Phosphate Plasticizer</b>	<b>13674-84-5</b>
Fish:	LC50 96h 56.2 mg/L ; EC50 48h Daphnia magna 131 mg/L ; EC50 72h Freshwater algae 82 mg/L
<b>Calcium oxide</b>	<b>1305-78-8</b>
Fish:	LC50 96 h Cyprinus carpio 1070 mg/L [static ]

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

**Other Toxicity**

No additional information available.

**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

**Section 14 - TRANSPORT INFORMATION**

**US DOT Information:**

UN/NA #: Not regulated

**IATA Information:**

UN#: Not regulated

**IMDG Information:**

UN#: Not regulated

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**TDG Information:**

**UN#:** Not regulated

**International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Titanium dioxide</b>	<b>13463-67-7</b>
IBC Code:	Category Z (slurry )

**Section 15 - REGULATORY INFORMATION**

**U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA Section 311/312 (40 CFR 370 Subparts B and C) 2017 reporting categories**

Carcinogenicity; Specific Target Organ Toxicity

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
<b>Limestone</b>	<b>1317-65-3</b>	No	Yes	Yes	Yes	Yes
<b>Carbonic acid, calcium salt (1:1)</b>	<b>471-34-1</b>	No	Yes	Yes	Yes	Yes
<b>Quartz</b>	<b>14808-60-7</b>	No	Yes	Yes	Yes	Yes
<b>Titanium dioxide</b>	<b>13463-67-7</b>	No	Yes	Yes	Yes	Yes
<b>Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-</b>	<b>22673-19-4</b>	Yes	No	Yes	No	No
<b>Carbon black</b>	<b>1333-86-4</b>	Yes	Yes	Yes	Yes	Yes
<b>Calcium oxide</b>	<b>1305-78-8</b>	Yes	Yes	Yes	Yes	Yes

**The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

WARNING! This product contains a chemical known to the state of California to cause cancer

<b>Phosphate Plasticizer</b>	<b>13674-84-5</b>
<b>Titanium dioxide</b>	<b>13463-67-7</b>
Carc:	carcinogen , 9/2/2011 (airborne, unbound particles of respirable size )
<b>Carbon black</b>	<b>1333-86-4</b>

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Carc:	carcinogen , 2/21/2003 (airborne, unbound particles of respirable size )
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**Canada Regulations**

**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

<b>Quartz</b>	<b>14808-60-7</b>
	1 %
<b>Stearic acid</b>	<b>57-11-4</b>
	1 %
<b>Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-</b>	<b>22673-19-4</b>
	1 % (related to Tin compounds)
<b>Carbon black</b>	<b>1333-86-4</b>
	1 %
<b>Calcium oxide</b>	<b>1305-78-8</b>
	1 %

**Component Analysis - Inventory**

**Phosphate plasticizer (13674-84-5)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes

**Limestone (1317-65-3)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	NSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Carbonic acid, calcium salt (1:1) (471-34-1)**

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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Quartz (14808-60-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Silane, ethenyltrimethoxy- (2768-02-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes

**Stearic acid (57-11-4)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Titanium dioxide (13463-67-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- (22673-19-4)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	No	Yes

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**Carbon black (1333-86-4)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Calcium oxide (1305-78-8)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Odorless Mineral Spirits (64741-65-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No

**Section 16 - OTHER INFORMATION**

**Summary of Changes**

New SDS: March 16, 2018

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL -

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Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada).

### **Other Information**

#### **Disclaimer:**

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